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June 4, 2018

Ms. Marlene H. Dortch, Secretary Federal Communications Commission 445 Twelfth St, SW Washington, D.C. 20554

Re: Use of Spectrum Bands Above 24 GHz For Mobile Radio Services, GN Docket

No. 14-177

Dear Ms. Dortch:

On May 31st, Joan Marsh, Hank Hultquist and Michael Goggin, on behalf of AT&T, met with Nick Degani and Rachael Bender, Senior Counsel and Wireless and International Advisor, respectively, to Chairman Pai. During the meeting we discussed AT&T's proposal to allow existing 39 GHz licensees to temporarily repack their holdings into contiguous channels in the 37.6-40 GHz band. Such temporary arrangements would terminate upon completion of a permanent rebanding, whether by auction or through secondary market transactions. During the meeting, we shared the presentation in the attached ex parte filing, which was made on April 9th.

Please do not hesitate to contact me should you have any questions.

Sincerely,

Michael P. Goggin

cc: Rachael Bender Nick Degani Alex Starr
Assistant Vice President-Senior Legal Counsel AT&T Services, Inc. 1120 20th Street NW Ste. 1000 Washington, D.C. 20036

Phone: 202.457.2044 E-mail: alex.starr@att.com

April 9, 2018

EX PARTE VIA ELECTRONIC FILING

Ms. Marlene Dortch Secretary Federal Communications Commission 445 12th Street SW Washington DC 20554

Re: *Use of Spectrum Bands Above 24 GHz for Mobile Radio Services*, GN Docket No. 14-177; IB Docket No. 15-256; WT Docket No. 10-112; IB Docket No. 97-95.

Dear Ms. Dortch:

AT&T Services, Inc., on behalf of the subsidiaries and affiliates of AT&T Inc. (collectively, "AT&T"), submits this letter to memorialize a meeting regarding the above-referenced proceedings on April 5, 2018 between Hank Hultquist, Terry Chevalier (by phone), Michael Goggin, Stacey Black, Jessica Lyons, and the undersigned of AT&T and Don Stockdale, Matthew Pearl, Joel Taubenblatt, Blaise Scinto, Simon Banyai, John Schauble, Erik Salovaara, Martha Stancill, Anthony Petrone, Meaghan Ryan, and Jennifer Tomchin (by phone) of the Federal Communications Commission's ("Commission" or "FCC") Wireless Telecommunications Bureau and David Horowitz and Doug Klein of the FCC's Office of General Counsel.

The parties discussed AT&T's proposal for the Commission to temporarily and voluntary repack incumbents with spectrum holdings in the 38.6 GHz-40 GHz band in a manner that would expedite use of spectrum in the 37.6-40.0 GHz band for the provision of 5G services, without harming the interests of any incumbents or of any potential bidders in any future auction of spectrum in the 37.6-40 GHz band. The discussion followed the material attached to this letter, with special emphasis on the facts that, under AT&T's proposal (i) the temporary repack would end immediately upon completion of a post-auction repack, and (ii) the procedural mechanism suggested is a special temporary authority ("STA") for commercial operations in identified geographic areas, with any conditions deemed necessary to ensure prompt, interference-free, and appropriately time-limited performance in the STA-designated spectrum.

Pursuant to the Commission's rules, a copy of this letter and its attachment are being filed electronically in the above-referenced dockets. Please do not hesitate to call me if you have questions.

Sincerely,

/s/ Alex Starr

Attachment

37.6 to 40.0 GHz Temporary Repack Proposed Approach

April 5, 2018



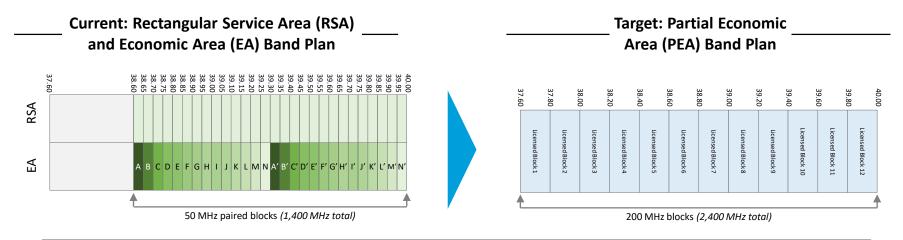
Topics

- Background on the 37.6 to 40.0 GHz band
- Key Principles in a Temporary Repacking
- Proposed Approach to Support Temporary Repack in Sample Markets
- 4 Key considerations and next steps





Need for a temporary repack

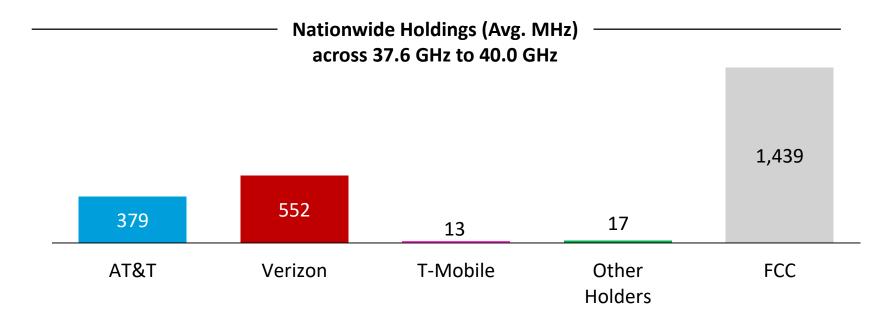


- Current band plan is complex with multiple license boundaries and holders, even over the same geographic
 area
- Auction with separate assignment round maximizes potential for contiguity across the entire band in a faster and fairer manner to advance the delivery of 5G services for the U.S.
- Prior to auction, a temporary repack solution is required to create larger, contiguous blocks to support rapid 5G deployments





Current incumbents and average nationwide holdings





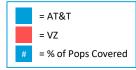
Key Principles in a Temporary Repack

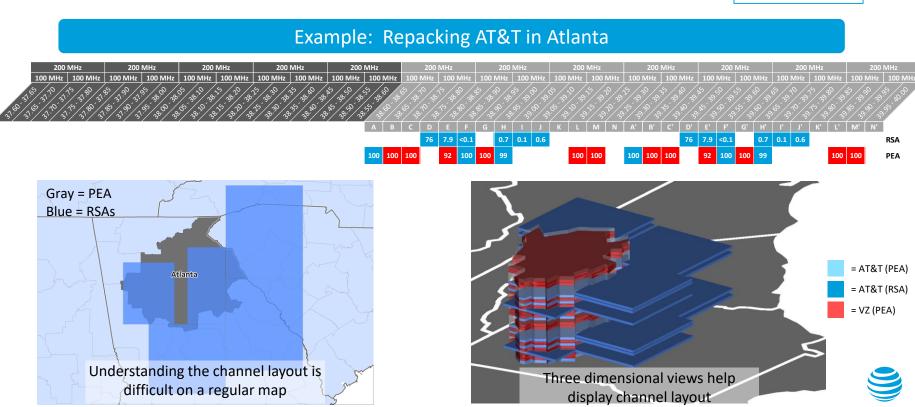
Objective of Temporary Repack: Repack current holdings to achieve a contiguous position in the 37.6 to 40.0 GHz range for incumbents who wish to launch 5G or other upper microwave flexible use services (UMFUS)

	Principles
Incumbent rights	 Repack limited to incumbents only and voluntary in nature All incumbents should have the ability to obtain contiguous holdings if they desire Method will allow for commercial launches in repacked spectrum
	Federal use coordination, if needed, will be executed by the incumbent wishing to repack
Duration	 Exists only until the post-auction repack occurs; free market-based auction determines final assignments of any current and new holders Possible performance requirement for commercial signal on air prior to end of initial STA A simple renewal mechanism should be enacted after meeting performance requirement
Repack constraints	 Utilizes entire 37.6 to 40.0 GHz band to improve efficiency of use Repacks paired 50 MHz channels into 100 MHz blocks to align with current standards Repack no more than existing holdings RSA boundaries should be preserved to maintain status quo

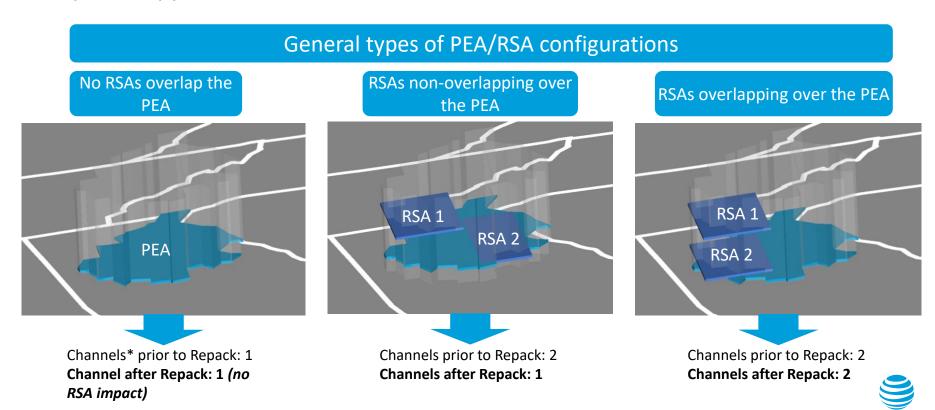
37.6 to 40.0 GHz Temporary Repack

Proposed approach: Map out ownership across the PEA





Proposed approach: Determine RSA treatment



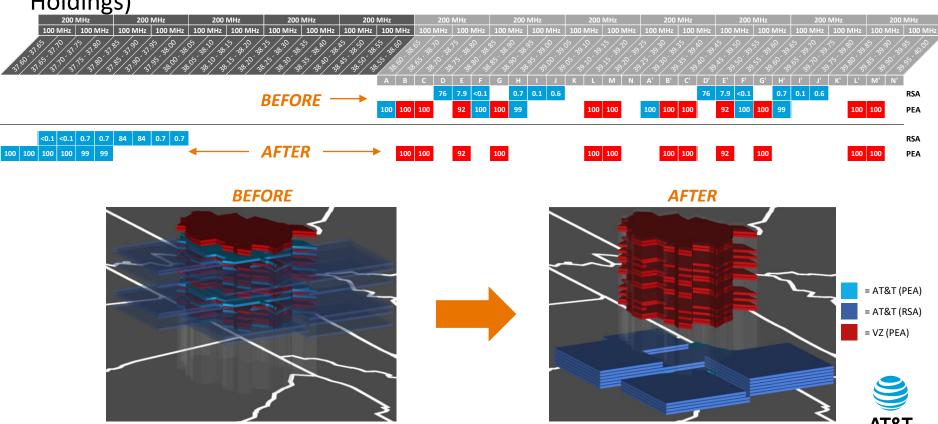
Proposed approach: Determine # of required repack channels (AT&T Atlanta Holdings)

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200 MHz	200 MHz	200	MHz	200	MHz	200	MHz	20	0 MHz		200	MHz		200 N	ЛHz		200 MI	Hz		200 MI	Hz	20) MHz	20	0 MHz
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								76	7.9	<0.1	0.7	0.1	0.6					76	7.9	<0.1	0.7	0.1 0.6			RSA
							100 100	100	92	100	100 99			100	100	100	100 1	00	92	100 1	00 99		100	100	PEA

Current 39 GHz Channel Pairings	License Type ¹	Channels PRIOR to Repack	Channels AFTER Repack	% PEA Pops	Comments					
A & A'	PEA	2	2	100	Single PEA – treat as single channels					
D/E & D'/E'	RSA	4	2	84	Non-overlapping RSAs – treat combined RSAs as single channels					
F & F′	PEA/RSA	2	2	100	Single PEA overlapped by 1 RSA (same holder) — treat as single channels					
Н & Н′	PEA/RSA	2	2	100	Single PEA overlapped by 3 non-overlapping RSAs – treat as single channels					
1/J & l'/J'	RSA	4	2	0.7	Non-overlapping RSAs – treat combined RSAs as single channels					
Total Channels		14	10							

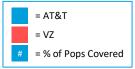
Proposed approach: Place repacked channels contiguously (AT&T Atlanta

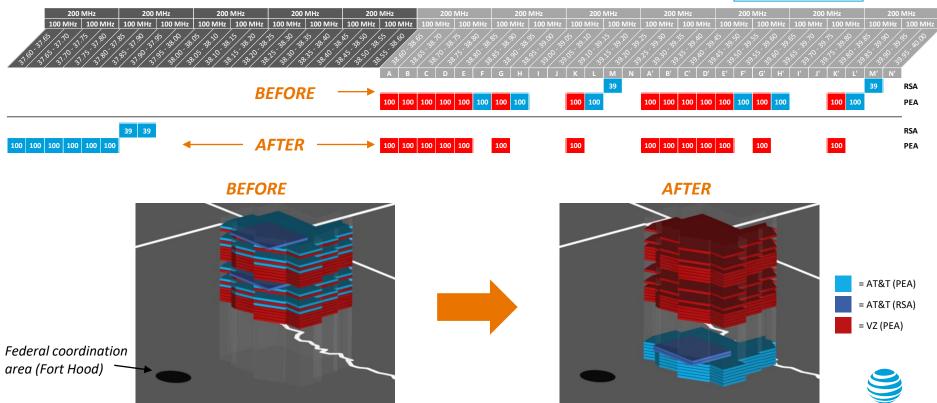
Holdings)



37.6 to 40.0 GHz Temporary Repack

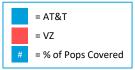
Sample results: Dallas

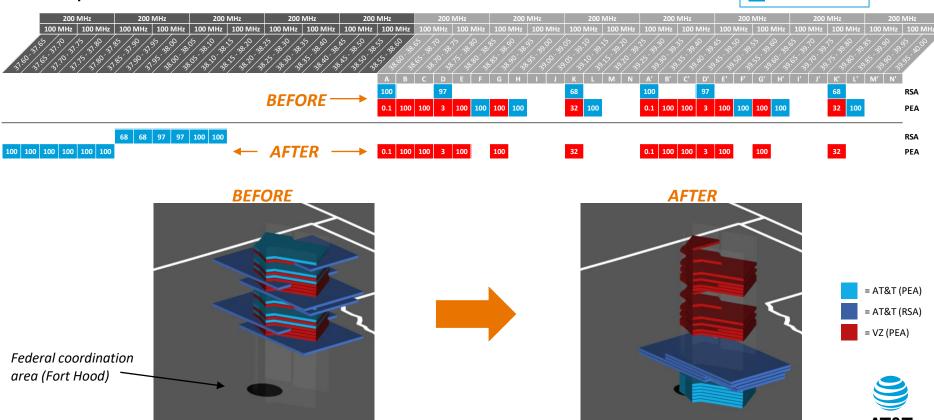




37.6 to 40.0 GHz Temporary Repack

Sample results: Waco







37.6 to 40.0 GHz Temporary Repack Incumbent situations vary by market

Category of **Multiple Licensees** AT&T + VZW AT&T + VZW + TMO Licensees (+FCC) (+ FCC) (+FCC) # of PEA areas 349 6 60 % of total 84% 1% 14% area % of nationwide 66% 9% 25% population



37.6 to 40.0 GHz Temporary Repack Summary and considerations

- Compresses incumbent holdings to minimize impact for later incumbents wishing to also repack
- Process repeatable for the next incumbent
- Initial and later authorizations could be tied to a performance metric during the temporary repack period
- Implemented through use of special temporary authority (STA) requesting an equivalent amount of spectrum based on repack that will support commercial deployments
- Recommend implementing on a "first-come, first-served" basis

